

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L18	6	(flight adj path) with (eject\$4 adj path)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/31 10:41
L19	279	(flight adj path) with (eject\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/31 10:42
L20	56	19 and (time near2 flight)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/31 10:43
L21	4	20 and (linear near2 trap)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/31 10:43
L22	13	20 and (trap\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/31 10:43
L23	33	("5763878").URPN.	USPAT	OR	ON	2009/10/31 10:46
S1	388	(fast near2 switch\$4) with electrode	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/29 13:34
S3	11	S1 and (mass near2 spectromet\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/29 13:34
S4	22	US-20050040330-\$.DID. OR US-20050109930-\$.DID. OR US-20050133716-\$.DID. OR US-20050173629-\$.DID. OR US-20050230616-\$.DID. OR US-7119328-\$.DID. OR US-7129482-\$.DID. OR US-20070003996-\$.DID. OR US-20070084999-\$.DID. OR US-20070277589-\$.DID. OR US-20080149824-\$.DID. OR US-20080210861-\$.DID.	US-PGPUB; USPAT; FPRS; DERWENT; IBM_TDB	OR	ON	2009/10/29 13:37

S5	5	US-5420425-\$.DID. OR US-20030066958-\$.DID. OR US-20050017170-\$.DID. OR US-7193207-\$.DID. OR US-7498571-\$.DID.	US-PGPUB; USPAT	OR	ON	2009/10/29 13:44
S6	269	((SUDAKOV near2 MICHAEL).inv.) or ((DING near2 LI).inv.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/29 14:33
S7	17	S6 and (switch\$4) with (electrode trap\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/29 14:34
S8	5441	(250/281,282,283,288,290,293).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/10/29 14:39
S9	735	S8 and (electrode trap\$4 digital puls\$4) with (switch\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/29 14:39
S10	214	S9 and (dc "d.c." (direct adj current)) with (trap\$4 near2 ion)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/29 14:40
S11	22	S10 and (switch\$4 with state)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/29 14:41
S12	1	("5569917").PN.	US-PGPUB; USPAT	OR	OFF	2009/10/29 14:50
S13	32	("3922543"   "5171991").PN. OR ("5569917").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/29 14:52
S14	5	("5569917").PN. OR ("6380666").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/29 14:58
S15	6	("20040132083"   "20050127291"   "6380666"   "6483244"   "6870159").PN. OR ("6977374").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/29 15:02
S16	938	(DC (direct adj current)) near4 (trap\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 08:21
S17	444	(DC (direct adj current)) with (end near2 cap)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 08:21

S18	87	S16 and S17	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 08:21
S19	34	S18 and (switch\$4 with (voltage potential bias))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 08:22
S20	285	S16 and (linear near2 ion near2 trap)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 08:27
S21	98	S20 and (switch\$4 with (voltage potential bias dc (direct adj current)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 08:28
S22	98	S21 and ((trap\$4 eject\$4) with (voltage potential bias dc (direct adj current)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 08:28
S23	68	S21 and ((eject\$4) with (voltage potential bias dc (direct adj current)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 08:29
S24	14	S23 and (control\$4 with switch\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 08:29
S25	694072	(switch\$4 with (voltage potential bias dc (direct adj current)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 08:56
S26	203	S25 and ((linear or two?dimension\$4 ((two "2") adj dimension\$4)) near2 ion near2 trap)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 08:58
S27	104	S26 and (DC (direct adj current)) near4 (trap \$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 08:58

S28	31	S26 and (DC (direct adj current)) near4 (eject \$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 08:59
S29	29	S27 and S28	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 08:59
S30	1	("6177668").PN.	US-PGPUB; USPAT	OR	OFF	2009/10/30 09:31
S31	1017	((linear or two?dimension\$4 ((two "2") adj dimens\$ion\$4)) near2 ion near2 trap\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 09:33
S32	416	S31 and (DC (direct adj current)) with (trap \$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 09:34
S33	230	S32 and (DC (direct adj current)) with (switch \$4 discrete select\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 09:35
S34	217	S33 and (electrode quadrupole \$4pole) with (DC (direct adj current))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 09:36
S35	32	S34 and (DC (direct adj current)).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 09:37
S36	65	S34 and (DC (direct adj current)) with (switch \$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 10:04
S37	14	S36 and (rapid fast quick) near3 (switch\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 10:05

S38	140	S31 and (switch\$4 near3 (voltage\$4 potent\$4 bias))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 10:23
S39	71	S38 and (DC (direct adj current) "D.C." "d.c.") with (switch\$4 discrete select\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 10:24
S40	97	S38 and (DC (direct adj current) "D.C." "d.c.") with (trap\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 10:24
S41	64	S39 and S40	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 10:24
S42	321	(electrostatic near2 field) with trap\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 11:14
S43	96	S42 and (DC (direct adj current) "D.C." "d.c.") with (trap\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 11:14
S44	25	S43 and (DC (direct adj current) "D.C." "d.c.") with (eject\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 11:14
S45	9	("6570151").URPN.	USPAT	OR	ON	2009/10/30 12:14
S46	60	S42 and S31	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 12:29
S47	46	S46 and (DC (direct adj current) "D.C." "d.c.") with (trap\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 12:30

S48	10	S47 and (DC (direct adj current) "D.C." "d. c.") with (switch\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 12:32
S49	13	("3065640"   "4540884"   "RE34000").PN. OR ("6570151").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/30 12:34
S50	24	("20020185596"   "20030183759"   "20030222214"   "20040195504"   "20040245460"   "20050263696"   "20050279932"   "20070158550"   "4882484"   "5420425"   "5468958"   "5625186"   "5783824"   "5886346"   "6087658"   "6570151"   "6608303"   "6723986"   "6797950"   "7034294"   "7276689"   "7279681"   "7326924"   "7329866").PN. OR ("7470900").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/30 12:36
S51	20	("5468958").URPN.	USPAT	OR	ON	2009/10/30 12:41
S52	14	("5650617").URPN.	USPAT	OR	ON	2009/10/30 12:49
S53	206	S25 and S31	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 12:53
S54	138	S53 and (switch\$4 with (eject\$4 accumulat\$4 trap\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 13:09
S55	59	S54 and (DC (direct adj current) "D.C." "d. c.") with (switch\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 13:13
S56	3	JP-2003123685-\$.did. or WO-0129875-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/30 13:15
S57	13	("20020119490"   "20020175292"   "6011259"   "6020586"   "6541769"   "6570151"   "6570152"   "6770872"   "6794640").PN. OR ("6900430").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/30 13:40

S58	33	("20040021070"   "20040021072"   "20040079873"   "20040079874"   "4736101"   "4959543"   "5075547"   "5128542"   "5200613"   "5206509"   "5274233"   "5298746"   "5302826"   "5352890"   "5381006"   "5381007"   "5404011"   "5436445"   "5508516"   "5528031"   "5561291"   "5572022"   "5610397"   "5679951"   "5864136"   "6147348"   "6410913"   "6710336"   "6770872"   "6900430"   "6949743"   "6965106"   "7157698").PN. OR ("7528370").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/30 13:41
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